



Product: [OWL LTE](#) 

LTE Ethernet Gateway, Europe, VPN, GPS, Dual SIM, Serial, IO, USB, MicroSD, Vehicles (E-Mark)

Product Description

Industry 4.0 and Industrial IoT Cellular Router and Gateway. Optimized for 4G applications with edge pre-computing. GPS, VPN and openly programmable and extendable Linux. Rugged and approved for vehicles.

Technical Specifications

Product description

Type:	OWL LTE-S20TTA12121GTDAAHXX.X.XX
Name:	OWL LTE
Description:	Industry 4.0 and Industrial IoT Cellular Router and Gateway. Optimized for 4G applications with edge pre-computing. GPS, VPN and open extendable Linux.
Part Number:	942146001
Port type and quantity:	2x Ethernet, 2x Antenna, 1x GPS, 2x SIM, 1x Power, 3x I/O, 1x USB, 1x Serial, 1x MicroSD
Serial:	5-pin terminal block (connector included): RS232 , Serial2TCP , Serial2UDP
Country certification:	Europe (Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherland, Poland, Portugal, Romania, Sweden, Slovakia, Slovenia, Spain), Iceland, Liechtenstein, Norway, Switzerland, Turkey , Singapore
Hard disk space:	Can be extended with MicroSD (up to 64GB)

Product Life Cycle

Availability:	Limited
Last Order Date:	2020-11-12

More Interfaces

USB interface:	USB Type A socket
SIM Cards:	2x 2FF (3V, 1.8V), only one active at a time, can be configured independently, automatic switch on connection failure
Ethernet:	2x Ethernet: 10/100 Mbit/s (RJ45), PoE on both Ports
Power Supply:	2-pin panel socket (self-assembly connector included)
Signaling contact:	6-pin panel socket (connector included): 2x Digital Input, 1x Digital Output

Radio technology

Antenna connector:	3 x SMA Female (Cellular, Diversity, GPS)
Frequency band:	GPRS/EDGE (2G): 900/1800/1900 MHz, UMTS/HSPA+ (3G): 900/2100 MHz, LTE (4G): 800/900/1800/2100/2600 MHz
Transmission rate:	LTE Category 3: 100 Mbps Download, 50 Mbps Upload
Additional radio features:	GNSS (GPS, GLONASS)

Power requirements

Current consumption:	Idle 2.5 W, Average 4 W, Maximum 11 W
Operating Voltage:	12 V DC to 48 V DC, PoE PD Category 4
Power consumption:	8 W
Redundancy functions:	Dual VRRPv2 (with ping probes), Dual VRRPv3 (with ping probes), multiple routed interfaces (ping monitoring, failover and load balancing), PPPoE bridge mode

Diagnostics features

Modules and components:	User modules pre-installed: GPS, User modules as separate download: Lua, Python
Monitoring:	Syslog (UDP) , SNMPv1/2c/3

Security features

Authentication:	User Management (local, RADIUS, TACACS+, mixed)
Stateful inspection firewall:	Static Firewall IPv4/IPv6 with Incoming and Forwarding Ruleset, DoS protection

Service

Other services:	DHCP Server (IPv4/IPv6, dynamic and static leases, IPv6 Prefix Delegation, DNS proxy), DynDNS client, PPPoE, FTP server, E-Mail via SMTP, SMS (notifications and commands), Telnet server
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Software

Operating system:	Custom embedded Linux with Busybox Shell
VPN:	OpenVPN, IPSec, GRE, L2TP, PPTP
Switching:	VLAN (via Scripting), tunneled VLANs (via Scripting), IGMP
Management:	HTML5, SSH, SNMPv1/2c/3, Automatic configuration and firmware fetch from a web- or ftpserver, backup and restore with drag & drop
Diagnostics:	One click support report package, System log, Linux kernel log, reboot log, signal strength history (60 days), SSH linux shell, Signal strength LED indicators
Configuration:	Simple to edit text file configuration, HTTP, HTTPS, SMS, SSH, Telnet, 4 Configuration Profiles, automatic via web/ftp, SNMPv1/2c/3
Security:	HTTPS, SSH, Authentication with RADIUS or TACACS+, activate cellular interface with SMS, Ethernet 802.1X (EAP-PEAP/MsCHAPv2 or EAP-TLS)
Time synchronisation:	SNTP Client, SNTP Server
Routing:	Static unicast routing, Multinetting, IP masquerading, Port forwarding, Multiple routes with priority and load sharing, 1:1 NAT
Dynamic routing:	Dual VRRPv2 (with ping probes), Dual VRRPv3 (with ping probes), multiple routed interfaces (ping monitoring, failover and load balancing)

Ambient conditions

MTBF (MIL-HDBK 217F: Gb 25 °C):	44 Years
Degree of Protection when Installed:	IP30
Operating temperature:	-40-+70 °C
Storage/transport temperature:	-40-+85 °C
Relative humidity (non-condensing):	0-95 %

Mechanical construction

Dimensions (WxHxD):	56x122x97 mm
Weight:	855 g
Housing:	Metal
Mounting:	DIN Rail
Protection class:	IP30

Approvals

Safety of industrial control equipment:	EN 60950-1
Safety of information technology equipment:	EN 60950-1
Transportation:	E8 (vehicles)
Radio:	EN 301 511, EN 301 489(-1,-7,-24), EN 301 908(-1,-2,-13)

Reliability

Guarantee:	60 months (please refer to the terms of guarantee for detailed information)
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Scope of delivery and accessories

Accessories:	942042105 Indoor LTE Antenna, 942042108 Indoor GPS antenna, 942117001 50Ohm terminator for cellular antenna, 943662015 Rail Power Supply
Scope of delivery:	Device, DIN rail clip, power connector, 6-pin I/O connector, 5-pin terminal block for RS232

Further Instructions

Product Documentation:	https://www.doc.hirschmann.com
Certificates:	https://www.doc.hirschmann.com/certificates.html
Software Download:	https://hirschmann-support.belden.com/en-US/downloads

History

Update and Revision:	Revision Number: 0.140 Revision Date: 04-17-2024
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Variants

Item #	Type
942146001	OWL LTE-S20TTA12121GTDAHxx.x.xx

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